## WATERQUALITYDATA

A summary of test results is provided in the table below. The majority of data in this table are from 2006. If after reading this report you need additional information or service, please feel free to call our water quality experts at 428-3647 during normal business hours.

## Terms and abbreviations used below:

- Maximum Contaminant Level (MCL): the highest level of a contaminant set that is allowed in drinking water. EPA sets MCLs as close to the MCLGs as feasible using the best available treatment technology.
- Action Level (AL): the concentration of a contaminant prescribed by the EPA, which when exceeded, triggers treatment or other requirements that a water system must follow.
- NTU: nephelometric turbidity units ppm: parts per million or milligrams per liter pCi/L: picocurries per liter (a measure of radiation) NA: not applicable nd not detected at testing limit

			Hemlock L	ake		Lake Ontario	
Contaminant	MCL	# tests	avg	range	# tests	avg	range
Inorganic contaminar	nts						
Aluminum (ppb)	NA	1	Not found				
Antimony (ppb)	6	1	Not found				
Arsenic (ppb)	50	1	Not found				
Barium (ppm)	2.00	1	0.0.015				
Berylium (ppb)	4	1	Not found				
Cadmium (ppb)	5	1	Not found				
Calcium (ppm)	NA	12	24	23-26			
Chromium (ppb)	100	1	Not found				
Copper (ppb)	AL=1300	50	98 (=90%tile)	ND-240			
Cyanide (ppb)	200	1	Not found				
Fluoride (ppm)	2.2	1013	0.87	ND-1.03			
Iron (ppb)	300	1	Not found				
Lead (ppb)	AL=15	50	9.1 (=90%tile)	ND-24 (3 samples >15)			
Magnesium (ppm)	NA	1	6.0				
Manganese (ppb)	300	1	Not found				
Mercury (ppb)	2	1	Not found				
Nickel (ppb)++++++	100	1	Not found				
Nitrate (ppm)	10	12	0.18	0.05-0.26			

Contaminant			Hemlock I	∟ake	Lake Ontario			
	MCL	# tests	avg	range	# tests	avg	range	
Nitrite (ppm)	1	1	Not found					
Potassium (ppm)	NA	1	1.6					
Selenium (ppb)	50	1	Not found					
Silver (ppb)	100	1	Not found					
Sodium (ppm,)	NA	1	18					
Sulfate (ppm)	250	12	17	16-21				
Surfactants (ppm) '05 data	NA	1	Not found					
Thallium (ppb)	2	1	Not found					
Zinc (ppb)	5000	1	Not found					
Alkalinity (ppm)	NA	24	63	60-66				
Chlorides (ppm)	250	10	32	30-34				
Color ( Pt color unit)	15	9	ND	ND				
pH (pH unit)	NA	358	7.5	7.0-7.9				
Total Hardness (ppm)	NA	1	86					
Total Organic Carbon (ppm)	NA	4	2.2	1.9-2.4				
Turbidity - entry point (NTU)	**	2187	0.07	0.04-0.20				
Turbidity distribution system (NTU)	***	2060	0.2	0.05-7.1				
Chlorine residual - entry point (ppm)	****	2183	0.0.95	0.5-1.2				
Chlorine residual - distribution (ppm)	****	2066	0.70	ND-1.4				
Odor (threshold odor unit)	NA	6	1	ND-4				
Coliform - entry point (% positive)	NA	3	0	0				
Coliform - distribution system (% pos) <sup>1</sup>	5%	2070	0.7%	0-2.8%				
Asbestos (million fibers/L) '04 data	7	1	Not found					

Contaminant			Hemlock L	ake	Lake Ontario			
	MCL	# tests	avg	range	# tests	avg	range	
Volatile Organics (ppb)								
Benzene	5	1	Not found		4	not found		
Bromobenzene	5	1	Not found		4	not found		
Bromochloromethane	5	1	Not found		4	not found		
Bromomethane	5	1	Not found		4	not found		
n-Butylbenzene	5	1	Not found		4	not found		
Carbon tetrachloride	5	1	Not found		4	not found		
Chlorobenzene	5	1	Not found		4	not found		
Chloroethane	5	1	Not found		4	not found		
Chloromethane	5	1	Not found		4	not found		
2-Chlorotoluene	5	1	Not found		4	not found		
4-Chlorotoluene	5	1	Not found		4	not found		
dibormomethane	5	1	Not found		4	not found		
1,2-Dichlorobenzene	5	1	Not found		4	not found		
1,3-Dichlorobenzene	5	1	Not found		4	not found		
1,4-Dichlorobenzene	5	1	Not found		4	not found		
Dichlorodifluoromethane	5	1	Not found		4	not found		
1,1-Dichloroethane	5	1	Not found		4	not found		
1,2-Dichloroethane	5	1	Not found		4	not found		
1,1-Dichloroethene	5	1	Not found		4	not found		
cis-1,2-Dichloroethene	5	1	Not found		4	not found		
trans-1,2-Dichloroethene	5	1	Not found		4	not found		
1,2-Dichloropropane	5	1	Not found		4	not found		
1,3_Dichloropropane	5	1	Not found		4	not found		
2,2_Dichloropropane	5	1	Not found		4	not found		
1,1-Dichloropropene	5	1	Not found		4	not found		
cis-1,3-Dichloropropene	5	1	Not found					
trans-1,3-Dichloropropene	5	1	Not found		4	not found		

			Hemlock L	ake	Lake Ontario			
Contaminant	MCL	# tests	avg	range	# tests	avg	range	
Ethyl benzene	5	1	Not found		4	not found		
Hexachlorobutadiene	5	1	Not found		4	not found		
Isopropylbenzene	5	1	Not found		4	not found		
p-Isopropyltoluene	5	1	Not found		4	not found		
Methylene chloride	5	1	Not found		4	not found		
Naphthalene	NA	NA			4	not found		
n-Propylbenzene	5	1	Not found		4	not found		
Styrene	5	1	Not found		4	not found		
1,1,1,2-tetrachloroethane	5	1	Not found		4	not found		
1,1,2,2-Tetrachloroethane	5	1	Not found		4	not found		
Tetrachloroethene	5	1	Not found		4	not found		
Toluene	5	1	Not found		4	not found		
1,2,3-Trichlorobenzene	5	1	Not found		4	not found		
1,2,4-Trichlorobenzene	5	1	Not found		4	not found		
1,1,1-Trichloroethane	5	1	Not found		4	not found		
1,1,2-Trichloroethane	5	1	Not found		4	not found		
Trichloroethene	5	1	Not found		4	not found		
Trichlorofluoromethane	5	1	Not found		4	not found		
1,2,3-Trichloropropane	5	1	Not found		4	not found		
1,2,4-trimethylbenzene	5	1	Not found		4	not found		
1,3,5-trimethylbenzene	5	1	Not found		4	not found		
Xylenes	5	1	Not found		4	not found		
Vinyl chloride	5	1	Not found		4	not found		
МТВЕ	NA	1	Not found					
Organics, Pesticides, PCBs (	(ppb)							
1,2-Dibromo-3- Chloropropane	0.2	1	Not found		4	not found		
1,2-Dibromoethane (EDB)	0.05	1	Not found		4	not found		

Contaminant			Hemlock L	ake	Lake Ontario		
	MCL	# tests	avg	range	# tests	avg	range
2,4,5-TP (Silvex)	10	1	Not found		4	not found	
2,4-D	50	1	Not found		4	not found	
3-Hydroxycarbofuran	50	1	Not found		1	not found	
Alachlor	2	1	Not found		1	not found	
Aldicarb	3	1	Not found		1	not found	
Aldicarb Sulfone	2	1	Not found		1	not found	
Aldicarb Sulfoxide	4	1	Not found		1	not found	
Aldrin	50	1	Not found		4	not found	
Atrazine	3	1	Not found		1	not found	
Benzo(a)pyrene	0.2	1	Not found		1	not found	
Bis(2-Ethylhexyl)Phthalate	6	1	Not found		1	not found	
Butachlor	50	1	Not found		1	not found	
Carbaryl	50	1	Not found		1	not found	
Carbofuran	40	1	Not found		1	not found	
Dalapon	50	1	Not found		1	not found	
bis(2-Ethylhexyl) Adipate	50	1	Not found		1	not found	
Dicamba	50	1	Not found		1	not found	
Dieldrin	50	1	Not found		4	not found	
Dinoseb	7	1	Not found		1	not found	
Dioxin	0.03	1	Not found		1	not found	
Diquat	20	1	Not found		1	not found	
Endothall	50	1	Not found		1	not found	
Endrin	2	1	Not found		4	not found	
Glyphosate	50	1	Not found		4	not found	
Heptachlor	0.4	1	Not found		4	not found	
Heptachlor Epoxide	0.2	1	Not found		4	not found	
Hexachlorobenzene	1	1	Not found		1	not found	

			Hemlock L	ake	Lake Ontario			
Contaminant	MCL	# tests	avg	range	# tests	avg	range	
Hexachlorocyclopentadiene	50	1	Not found		1	not found		
Lindane	0.2	1	Not found		4	not found		
Methomyl	50	1	Not found		1	not found		
Methoxychlor	40	1	Not found		4	not found		
Metolachlor	50	1	Not found		1	not found		
Metribuzin	50	1	Not found		1	not found		
Oxamyl	50	1	Not found		1	not found		
PCB's Total	0.5	1	Not found		4	not found		
Pentachlorophenol	1	1	Not found		1	not found		
Pichloram	50	1	Not found		1	not found		
Propachlor	50	1	Not found		4	not found		
Simazine	4	1	Not found		1	not found		
Total Chlordane	2	1	Not found		4	not found		
Propylene glycol	1000	1	Not found					
Toxaphene	3	1	Not found		4	not found		
4,4'-DDT	NA	1	Not found		4	not found		
Mirex	NA	1	Not found		4	not found		
Disinfectant Byproducts (pp	<b>b</b> )							
Total THMs	80	16	39	14-51				
Total HAAs	60	16	25	6-39				
Unregulated Contaminants	Monitoring (p	opb)(2002 d	lata)					
2,4-dinitrotoluene	NA	3	Not found					
2,6- dinitrotoluene	NA	3	Not found					
Acetochlor	NA	3	Not found					
DCPA mono-acid degradate	NA	3	Not found					
DCPA di-acid degradate	NA	3	Not found					
4,4'-DDE	NA	3	Not found					

			Hemlock L	ake		Lake Ontario	
Contaminant	MCL	# tests	avg	range	# tests	avg	range
EPTC	NA	3	Not found				
Molinate	NA	3	Not found				
Nitrobenzene	NA	3	Not found				
Perchlorate	NA	3	Not found				
Terbacil	NA	3	Not found				
Radionuclides (pCi/L)							
Gross alpha (2004 data)	15	1	Not found		1(1997)	not found	
Radon (2005 data)	NA	1	20 pCi/L				
Gross Beta (2004 data)	50	1	Not found		1(1997)	not found	
Taste and Odor Compounds							
Geosmin (ng/L*****)	NA	3	2	ND-5.5			
MIB (ng/L)	NA	3	ND	ND			

Table footnotes:

1) In 1993, the New York State Department of health granted the city what is known as a biofilm variance to the total coliform bacteria MCL. Biofilm refers to a layer of bacteria that can be found on water pipe surfaces. A biofilm variance is only allowed where the coliform bacteria recovered from a water system are identified as non-disease causing environmental strains originating from the pipeline biofilm and not from an external source of contamination. The City of Rochester is one of several large suppliers nationwide holding a bilfilm variance.

\*\* = 95% of measurements within a given month must be less than 0.5 ntu.

Note: Total Hardness is also expressed in grains per gallon. The grains of hardness in the Onatario and hemlock supplies are 7.6 & 5.6, respectively.

<sup>\*\*\* =</sup> Average of monthly distribution system samples must be less than 5.0 ntu.

<sup>\*\*\*\* =</sup> Water entering the distribution must have a chlorine residual greater than 0.2 and less than 4 ppm.

<sup>\*\*\*\*\* = 95%</sup> of monthly distribution system samples must have a measurable chlorine residual.

<sup>\*\*\*\*\* =</sup> nanograms/liter or parts per trillion